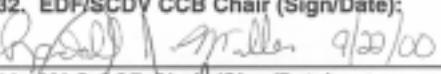
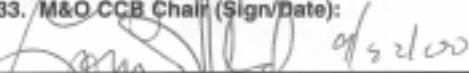


## ECS Configuration Change Request

Page 1 of 2 Page(s)

1. Originator Evan Winston	2. Log Date: <b>22SEP00</b>	3. CCR #: <b>00-0953</b>	4. Rev: —	5. Tel: 301.925.0348	6. Rm #: 2013	7. Dept. DEV/CO
8. CCR Title: Test Executable 5B.05_SDSRV.02 to all sites. Provides fixes for all SDSRV NCRs that have been merged to the 5B.06 baseline by 9/21/00.						
9. Originator Signature/Date  <i>9/22/00</i>		10. Class <b>II</b>	11. Type: CCR	12. Need Date: 22Sept2000		
13. Office Manager Signature/Date  <i>9/22/00</i>		14. Category of Change: Update ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 28). Emergency		
16. Documentation/Drawings Impacted: N/A		17. Schedule Impact: N/A		18. CI(s) Affected:DMS		
19. Release Affected by this Change: 5B		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: Fixes for <del>32</del> NCRs (see attached list) <i>17</i>						
23. Problem: (use additional Sheets if necessary) Fixes for the NCRs on list need to be delivered to the DAACs.  <del>Also the SBP capability &lt;U//Pricing&gt; is included.</del>						
24. Proposed Solution: (use additional sheets if necessary) Test Executable 5B.05_BME.02 will provide fixes to the NCRs listed. TE can be loaded on top of DMS installations of 5B.03 and 5B.05 <i>SDSRV</i>						
NOTE: Some of the NCRs listed in this CCR have previously been included with earlier TEs. This is because this TE is delivering the complete <del>BME</del> package and not all sites have installed all previous TEs.						
25. Alternate Solution: (use additional sheets if necessary) Take no action now and wait until 5B.06 is available at the DAACs.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) DAACs must continue to work around the problems and/or modify operating procedures.						
27. Justification for Emergency (If Block 15 is "Emergency"): Resolves DAAC operational problems and many of the NCRs are on the priority list..						
28. Site(s) Affected: <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input checked="" type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date):  <i>9/22/00</i>		Disposition: <input checked="" type="checkbox"/> Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
33. M&O CCB Chair (Sign/Date):  <i>9/22/00</i>		Disposition: <input checked="" type="checkbox"/> Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
34. ECS CCB Chair (Sign/Date):		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS				

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ECS/EDF/SCDV/M&amp;O

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## ADDITIONAL SHEET

CCR #: 00-0953 Rev: Originator: Evan Winston

Telephone: 301.925.0348 Office: DEV/CO

**Title of Change:** Test Executable 5B.05\_SDSRV.02 to all sites. Provides fixes for all SDSRV NCRs that have been merged to the 5B.06 baseline by 9/21/00.

CM: PLEASE, build Sun TAR file for the listed files from current 5B baseline and provide to the SMC.

.EcDsSdSDSRV.pkg  
.EcDsSdOPSWS.pkg

all the files in the following directory:  
/ecs/formal/ESDT/lib/sun5.5 (all the DLLs)

and these two files:  
/ecs/formal/ESDT/sybase/db/data/DsDbSODictionaryData.sql  
/ecs/formal/ESDT/sybase/db/data/EcDsSrDbValids

SMC: Receive the TAR file and make available to the DAACs, PVC and VATC.

**DAAC Install Instructions:**

TE can be loaded on top of SDSRV installations of 5B.03 , and 5B.05. This replaces all other 5B.03 and 5B.05 TEs for SDSRV!! This TE should be installed in conjunction with the TE 5B.05\_DMS.02 as valids changes/updates are in both of these TEs

1. Get TAR Files from SMC distribution;
2. UNTAR the files and copy to the staging area.
3. Modify the file permissions as specified below.  
cd <distribution\_directory>/<stage\_directory>/SUN/CUSTOM/dbms  
chmod 0744 DSS/DsDbSybaseLogins
4. Perform the following copy commands in preparation for installing new valids

```
cp <distribution_directory>/<stage_directory>/SUN/CUSTOM/utilities/EcDsDrDbValids  
/usr/ecs/<mode>/CUSTOM/utilities/
```

```
cp <distribution_directory>/<stage_directory>/SUN/CUSTOM/dbms/DSS/DsDbSODictionaryData.sql file  
/usr/ecs/<mode>/CUSTOM/dbms/DSS/
```

5. As the cm<MODE> user, perform the following:  
Go to the directory where the ESDT DLLS are maintained  
cd /usr/ecs/<MODE>/CUSTOM/lib/ESS  
cp <distribution\_directory>/<stage\_directory>/SUN/CUSTOM/temp/DSS
6. As the cmshared/allmode user, perform the following  
cd /usr/ecs/<MODE>/CUSTOM/lib/ESS  
cp \*ESDT\*.so /usr/ecs/<MODE>/CUSTOM/lib/DSS
7. On the SDSRV host use the ECS Assistant SubSystem Manager to perform the installation of the SDSRV package
8. Use the ECS Assistant to run the database patch 58.60

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9. Install the SDSRV Validis from the ECS Subsystem Manager. Must have DBO privilege to perform this task.
- Click Database
  - Select DBValidis
  - Select .dbparms
  - Click OK on the EcDsSrDbValidis screen
  - Enter SDSRV DB access values as prompted

10. Review the Registry Database for SDSRV and ensure it contains the following parameters.

SDSRV\_NOTIFIERQ\_DATARETENTIONHOURS with a value of 48  
SDSRV\_NOTIFIERQ\_CLEANUPINTERVALSECS with a value of 3600  
SDSRV\_REQUEST\_CLEANUPINTERVALSECS with a value of 3600  
SDSRV\_REQUEST\_DATARETENTIONHOURS with a value of 48

If the Registry does NOT contain these parameters, use the ECS Assistant SubSystem Manager to apply the SDSRV.rgypatch

Must have DBO privilege to perform this task.

- Select Tools from the top line Menu
- Select Registry Data Patch
- Enter the Registry DB access parameters as prompted. Ensure that the <RETURN> key is pressed after entering the value for Registry DB Name. Click the down arrow to select the appropriate Registry Tree to Patch. Click the "Select Patch File" button to enter the path where the .rgypatch is located.  
/usr/ecs/<MODE>/CUSTOM/.installed/DSS/sdsrv/.rgypatch

Ensure both the Registry and SDSRV are re-started.

11. If the instructions in the 5B.05 QAMUT Test Executable have NOT been executed, perform the following:

Create the QA MUT CFG file by executing the following command in the /usr/ecs/<MODE>/CUSTOM/utilities directory

EcDsCIMuQaMetadataUpdateMkcf g <MODE>

NOTE: QA MUT configuration file is NOT to be loaded into the Registry.

## QA MUT

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### . PURPOSE of the DATABASE QA UPDATER TOOL

The Database QA Updater is designed to update the values of the Quality Assurance (QA) Flags in the ECS Inventory metadata within the Science Data Server. The QA Updater tool updates either Science or Operational metadata QA Flags, but not Automatic metadata QA Flags. The QA Updater sets QA values for a granule containing one or more Measured Parameters that have been examined by science or DAAC facility staff for Quality Assurance and that need to have their QA Flags values and associated QA Explanations updated.

During one run, the tool can update multiple granules at a time by assigning them distinct QA values for each Measured Parameter. This is the main purpose and strength of the tool: updating batches of various granules at a time. The granules can contain different Measured Parameters, and the QA Update Tool will still update each of the QA Flags in each Measured Parameter for all the granules listed in the input. Similar updates for the same granule but with different Measured Parameters should be grouped contiguously on separate lines in the Request so that all the updates for a granule can be done at the same time.

A uniformly formatted input request is expected to have arrived at the DAAC by email, containing an email header with the requester's return address, and containing a list of the granules to be updated, along with the new QA Flag values for the specified Measured Parameters. This list of Updates can then be passed to the Updater tool through UNIX standard input (file or terminal input).

## 2. SCOPE

The program reads a list of granule URs (Universal References; i.e. database Identifiers), and their Measured Parameters, along with the new QA Flag values and associated QA Explanations. The QA tool records the date of the Update at the end of the Explanations and then updates the QA values in the Inventory metadata database (not Archive Metadata), for each granule Measured Parameter. The program accomplishes this by overwriting previous QA Flag values and previous QA Explanations with the new QA Flags and new QA Explanations for each specified Measured Parameter. Thus, the QA Updater writes new QA

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metadata values but does NOT append new values to existing metadata. Instead, blank input for QA Flag and Explanation values will cause the tool to set metadata QA values to "NULL" in the database, effectively erasing previous QA metadata.

Also, if the input specifies "ALL" for the Measured Parameter of a single granule, the tool will update all the Measured Parameter QA Flags in that granule so that all the flags will have the same value and all the QA explanations will have another uniform value. **IMPORTANT:** The tool can not update granules that have no Measured Parameters. Also, if a Measured Parameter is incorrectly specified for one granule, the Updater tool will perform updates to all other granules in the request, but it will not update any of the QA Flags in any Measured Parameters for that erroneously specified granule.

After performing the updates, the Database QA Updater will write to disk a file logging 1) the initial request, 2) the old QA values, and 3) the new updated QA values. This QA Update log file is intended to be saved as a record of the updates. In addition, the program will write runtime diagnostic messages that can be viewed on the terminal or redirected to a runtime log file (UNIX standard out). Finally, the program writes a temporary file specifying the status of the requests, notifies the requester by emailing this file back to the remote return address, and then the program deletes the notice from the local disk. This completes the QA Update process. The program must be invoked again in order for another request to be processed.

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SDSRV NCRs Fixed Summary Table						
Identifier	Subsystem	Severity	State	Location	Description	
ECSed25494	OPS_SDSRV_DTS	2 C	EDF	EDF	SDSRV needs functionality to automatically reduce size of queues	
ECSed25687	OPS_SDSRV_DTS	2 T	EDF	EDF	L70RWRS Time of Day in SDSRV At EDC needs to be updated	
ECSed26660	OPS_SDSRV_IIF	2 C	EDF	EDF	Possible deadlock in the event of thread cancellation	
ECSed27129	OPS_SDSRV_DTS	3 C	EDF	EDF	DbBuild script must be run twice for new database.	
ECSed27394	OPS_SDSRV_IIF	2 C	EDF	EDF	Update ESDT Failure	
ECSed27426	OPS_MSS	3 V	EDF	A Registry patch is needed for every subsystem and component		
ECSed27480	OPS_SDSRV_IIF	2 C	PVC	ScienceDataServer Core Dump when request level reaches listen thread val		
ECSed27482	OPS_SDSRV_IIF	3 C	EDF	ECDsSdsrvTest should get 'n' for every cin statement		
ECSed27654	OPS_SDSRV_DTS	2 T	NSIDC DAAC	Incorrect status reported to Ingest on failed Browse insert.		
ECSed27683	RelB0_STMGT	1 C	EDF	Ingest hangs in EcDsSrResourceProvider::AutoRestart		
ECSed27706	OPS_SDSRV	2 T	EDC DAAC	ASTER L1B Browse does not work in Drop 5B		
ECSed27729	OPS_SDSRV	2 T	EDC DAAC	OPS:5B:03: ESDT deletion from SDSRV database is taking a lo		
ECSed27733	OPS_SDSRV	1 T	GSFC DAAC	GSFC/SIMC - Science DataServer OPS core dumping (5B:03)		
ECSed27790	OPS_SDSRV	2 C	EDF	Double unlock of DB Transaction Mutex		
ECSed27795	OPS_SDSRV_ESDT	2 T	EDC DAAC	ASTER L1B Browse does not work in Drop 5B		
ECSed27866	OPS_MSS	2 C	EDF	more Memory corruptions in IRIX65		
ECSed27938	OPS_SDSRV	2 C	EDF	Request with queued state moved to the destroy queue, never execute		
ECSed27953	OPS_SDSRV	2 T	EDC DAAC	5B:03+:OPS:Ingest Slowdown (SDSRV)		
ECSed28194	OPS_MSS	2 T	EDF	Need to update the .cfgpatch and .rgypatch files for 5B:06		

V A L I D S changes

2748 OPS - SDSRV\_ESDT  
 27393 OPS - SDSRV\_ESDT  
 27395 OPS - SDSRV\_ESDT  
 27533 OPS - SDSRV\_ESDT  
 27744 OPS - SDSRV\_ESDT  
 28044 OPS - SDSRV\_ESDT  
 28139 OPS - SDSRV\_ESDT  
 27513 OPS - SDSRV\_ESDT

New Method throughout Key words  
 Content ID col. not consistent Attributes / Content

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